

10/063979
Amtd. Dated Jul. 26, 2004
Reply to Office Action of Apr. 26, 2004

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

1 (Currently Amended). A golf ball comprising:

a core; and

a cover formed over the core, the cover composed of a thermosetting polyurethane material formed from reactants comprising at least one a polytetramethylene ether glycol terminated toluene diisocyanate polyurethane prepolymer with an isocyanate group content ranging from 3.75% to 7.0% and a curative blend consisting essentially of 4,4'-methylenebis-(2,6-diethyl)-aniline in an amount of 25 parts to 75 parts per 100 parts of the curative blend and a second curing agent in an amount of 25 parts to 75 parts per 100 parts of the curative blend;
wherein the cover has an aerodynamic surface geometry thereon.

2 (Original). The golf ball according to claim 1 further comprising at least one boundary layer disposed between the core and the cover.

3 (Canceled).

4 (Original). The golf ball according to claim 2 wherein the boundary layer is composed of a blend of ionomers.

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5-7 (Canceled).

8 (Currently Amended).

A golf ball comprising:

a core; and

a cover formed over the core, the cover composed of a thermosetting polyurethane material formed from reactants comprising at least one a polytetramethylene ether glycol terminated toluene diisocyanate polyurethane prepolymer with an isocyanate group content ranging from 3.75% to 7.0% and a curative blend consisting essentially of 4,4'-methylenebis-(2,6-diethyl)-aniline in an amount of 25 to 75 parts per one hundred parts of the curative blend and a second curing agent in an amount of 25 to 75 parts per one hundred parts of the curative blend, wherein the second curing agent has the same equivalent weight as the 4,4'-methylenebis-(2,6-diethyl)-aniline;

wherein the cover has an aerodynamic surface geometry thereon.

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9 (New). A golf ball comprising:
a core;
a boundary layer over the core, the boundary layer composed of a thermoplastic material and having a Shore D hardness ranging from 50 to 75; and
a cover encompassing the boundary layer, the cover composed of a thermosetting polyurethane material formed from reactants comprising a polytetramethylene ether glycol terminated toluene diisocyanate polyurethane prepolymer with an isocyanate group content ranging from 3.75 % to 7.0% and a curative blend consisting essentially of 4,4'-methylenebis-(2,6-diethyl)-aniline in an amount of 25 to 75 parts per one hundred parts of the curative blend and a second curing agent in an amount of 25 to 75 parts per one hundred parts of the curative blend, wherein the second curing agent has the same equivalent weight as the 4,4'-methylenebis-(2,6-diethyl)-aniline.

10 (New). The golf ball according to claim 9 wherein the second curing agent is N,N'-dialkylamino-diphenyl-methane.

11 (New). The golf ball according to claim 9 wherein the polypropylene glycol terminated toluene diisocyanate polyurethane prepolymer has an isocyanate group content ranging from 4.0% to 6.5%

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12 (New). The golf ball according to claim 9 wherein weight ratio of the polytetramethylene ether glycol terminated toluene diisocyanate polyurethane prepolymer to the curative blend is preferably in the range of about 10:1 to about 30:1.

13 (New). The golf ball according to claim 9 wherein the core comprises a polybutadiene material.

14 (New). The golf ball according to claim 9 wherein the boundary layer comprises a blend of ionomers.

15 (New). The golf ball according to claim 9 wherein the golf ball has a cover durability ranking ranging from 2.89 to 3.34.

16 (New). The golf ball according to claim 9 wherein the golf ball has a hardness ranging from 40 to 75.

17 (New). The golf ball according to claim 10 wherein the 4,4'-methylenebis-(2,6-diethyl)-aniline is present in an amount of 55 parts per one hundred parts of the curative blend and the N,N'-dialkylamino-diphenyl-methane is present in an amount 45 parts per one hundred parts of the curative blend.

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18 (New). The golf ball according to claim 10 wherein the 4,4'-methylenebis-(2,6-diethyl)-aniline is present in an amount of 50 parts per one hundred parts of the curative blend and the N,N'-dialkylamino-diphenyl-methane is present in an amount 50 parts per one hundred parts of the curative blend.

19 (New). The golf ball according to claim 1 wherein the second curing agent is N,N'-dialkylamino-diphenyl-methane.

20 (New). The golf ball according to claim 1 wherein the second curing agent is N,N'-dimethylthio-2,4-toluene-diamine.

21 (New). The golf ball according to claim 8 wherein the second curing agent is N,N'-dialkylamino-diphenyl-methane.